STA BEGIN S.A.P. END STA 121+16 141+66 S.A.P. 07-615-08 07-615-08

EARTH COUNTY HIGHWAY DEPARTMENT

CONSTRUCTION PLAN FOR BITUMINOUS OVERLAY & AGGR. SHOULDER

COUNTY STATE AID HIGHWAY NO. 15

BETWEEN:AGENCY ST. AND CR 173
FROM:A PT APPROX. 2245' E. & 880' N. OF TH
SW COR. OF SEC. 8-107-25
TO:A PT 1048.6' W OF THE COR. OF SEC.
17-107-25

GROSS LENGTH 2050.00 FEET 0.388 MILES BRIDGE LENGTH 000.00 FEET 0.000 MILES NET LENGTH 2050.00 FEET 0.388 MILES

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OVERLAYED IN:1992 UNDER SAP 07-615-05 SURFACED IN: 1974 UNDER SAP 07-643-01 GRADED IN:IN 1974 UNDER SAP 07-643-01

DESIGN DESIGNATION

R 25

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ADT (Current Year) 1533 2012
ADT (Future Year) 2453 2032
ADT (Heavy Commercial)
ESAL 237.000
10 TON DESIGN
R-VALUE 10
DESIGN SPEED NOT ACHIEVED AT:
SOIL FACTOR 130
SHOULDER WIDTH '
STOPPING SIGHT DISTANCE BASED ON
3.5' HEIGHT OF EYE

GOVERNING SPECIFICATIONS

0.5' HEIGHT OF OBJECT

THE 2005 EDITION OF THE MINNESDTA DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.

INDEX OF SHEETS

SHEET NO. 1 TITLE

SHEET NO. 2 ESTIMATED QUANTITIES

SHEET NO. 3 STANDARD PLATES

SHEET NO. 4 CHARTS

SHEET NO. 5 TYPICAL SECTIONS

SHEET NO. 6 DETAILS

PLAN NOT TO SCALE

ALL APPLICABLE FEDERAL. STATE AND LOCAL LAWS AND ORDINANCES WILL BE COMPLIED WITH. IN THE CONSTRUCTION OF THIS PROJECT.

I HERE BY CERTIFY THAT THIS PLAN. SPECIFICATION. OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

DATE OF THE STATE AND ENGINEER STATE AND ENGINEER: APPROVE FOR STATE AND FUNDING SATE OF THE STATE AND ENGINEER: APPROVE FOR STATE AND FUNDING SATE

A.P. 07-615-08 SHEET No. 1 OF 6 SHEETS

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164	0	164	LIN FT	TEMPORARY LANE MARKING	2580.501	(3)
27	0	27	EACH	ADJUST FRAME & RING CASTING	2506.522	(1)(2)
564	0	564	TON	BITUMINOUS (PRODUCE, HAUL, & LAY)	(1) 2360.609	(1)
53	0	53	TON	BITUMINOUS AGGREGATE (GRAVEL FINE)	(1) 2360.609	(1)
133	0	133	TON	BITUMINOUS AGGREGATE (GRAVEL INTERMEDIATE)	(1) 2360.609	(1)
159	0	159	TON	BITUMINOUS AGGREGATE (CLASS "A" FINE)	2360.609	(1)
186	0	186	TON	BITUMINOUS AGGREGATE (CLASS "A" INTERMEDIATE)	2360.609	$\overline{\Box}$
33	0	33	TON	BITUMINOUS MATERIAL FOR MIXTURE (PG 58-28)	(1) 2360.609	(1)
513	0	513	GAL	BITUMINOUS MATERIAL FOR TACK COAT	(1) 2357.502	(1)
3188	0	3188	SQ YD	MILL BITUMINOUS SURFACE	2232.501	
TOTAL	PART.	CSAH #15	UNIT	ITEM	NO. MALI	

⁽¹⁾ BASIS OF PAYMENT SPECIFIED IN SPEC. 1903 SHALL BE MODIFIED TO PRECLUDE ANY PRICE ADJUSTMENT FOR INCREASED OR DECREASED QUANTITIES.

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ADJUSTMENT RINGS SHALL BE APPROVED BY THE ENGINEER PRIOR TO RAISING. (3) PLACED ON EVERY LIFT, REMOVED BEFORE NEXT LIFT AND PRIOR TO STRIPING. (2) APPROXIMATE: 22 MANHOLES & 5 WATER VALVE BOX. CONCRETE OR CAST IRON

BASIS FOR PLANNED QUANTITIES

BITUMINOUS SURFACE

BITUM. MAT'L FOR TACK COAT 0.05 GALS. PER S0. YD. BITUM. MAT'L FOR WEAR COURSE AC (PG 58-28) 5.8% BY WEIGHT BITUM. COURSES, 110 LBS. PER 1" / SQ. YD.

AGGREGATE PROPORTIONS: 35% CLASS "A" INTERMEDIATE 30% CLASS "A" FINE 25% GRAVEL INTERMEDIATE

10% GRAVEL FINE

THE FOLLOWING STANDARD PLATES AS APPROVED BY THE FHWA SHALL APPLY

	28
ADJUSTING RINGS STANDARD BARRICADES	4108F 8000 I
DESCRIPTION	PLATE No.
STANDARD PLATES	

CSAH 15	CSAH 15 SUPERPAVE BITUM. CALCULATI	E BITUM	. CALCL	JLATIO	SNO	8	
		AVER				BITUM	TACK
	LENG	LENGTH WIDTH	DEPTH WEAR		BINDER	MAT"L	COAT
LOCATION	FEET	T FEET	INCHES	NOT	TON	TON	GAL
BITUM. WEAR STA 121 + 16 TO STA 141 + 66		2050 4	45 1	564		32.7	513
PABITUM12biturmCSAH 15\[15 SUPERPAVE.xis]A	_	TOTAL	_	564	0	33	513

564	53	133	159	186			TOTAL	
564	53	133	159	186	531	33	564	WEAR
NOT	TON	NOT	TON	TON		NOT		
	10%	25%	30%	35%	TONS	5.8%		
LAY	FINE	INTERM	FINE	INTERM	AGGR.	MAT'L	TONS	
HAUL	GRAVEL		CL. "A"		TOTAL	BITUM	MIX	
PRODUCE	BITUM	BITUM		впим				
		S	JANTITIE	CSAH 15 SUPERPAVE BITUM. QUANTITIES	RPAVE B	SUPE	CSAH 15	

3,188	TOTAL			P\BITUM12bitum\CSAH 15\[15 MLL.x\s]A	P:\BITUN
1,594	7	2,050	디	121 + 16 TO 141 + 66 LT	121
1,594	7	2,050	끅	121 + 16 TO 141 + 66 RT	121
SQ.YD.	WIDTH	LOC LENGTH WIDTH SQ.YD.	Loc.	STATION TO STATION	STAT
		۵	15-08	SAP 07-615-08	
	ACE	SURFACE		MILL BITUM.	3

TAPER FROM LIP OF C&G STARTING AT DEPTH OF 1" OUT TO 0" IN 7' THE MILLINGS SHALL BE HAULED TO PRANGE PIT, SEE SPECIAL PROVISIONS.

SUPERPAVE & MILLING QUANTITES

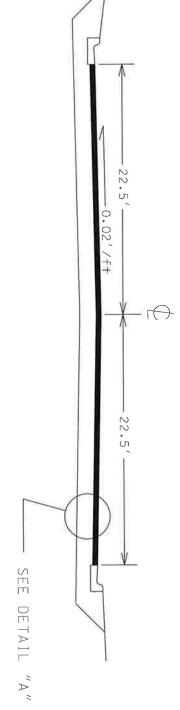
by torolog LIC. NO. 14720 MAR. 10, 2012

CERTIFIED BY

S.A.P. 07-615-08 SHEET No. 4 OF 6 SHEETS

TYPICAL SECTION

STA 121 + 16 TO STA 141 + 66



DETAIL "A"

_1" SP WEARING COURSE MIXTURE (2360)
_ INPLACE 3" WEARING COURSE MIXTURE (2331)

INPLACE 3" BITUM. BASE COURSE MIXTURE (2331)

INPLACE 14" AGGR. BASE CL-5 (2211)

CERT. BY

PROFESSIONAL ENGINE

LIC. No. 14720 MAR. 10, 2012

S.A.P. 07-615-08

SHEET NO. 5 OF 6 SHEETS